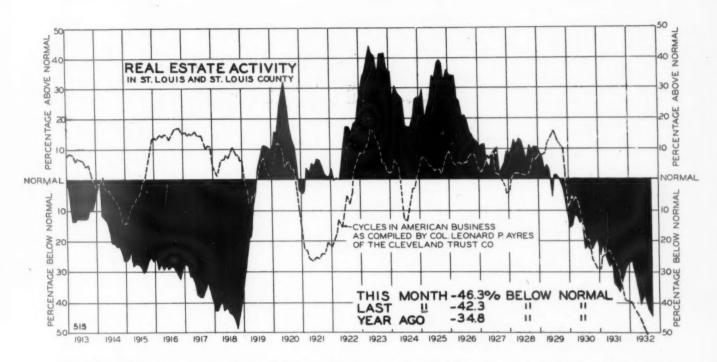


The Real Estate ANALYST

SAINT LOUIS EDITION



September was a month of further drastic liquidation in real estate. Foreclosures continued their upward movement, setting a new high record but no longer increasing at the tremendous rate of a few months ago. Construction has stayed at a standstill and open shop construction costs have dropped to a point but slightly above pre-war. Marriages have dropped to the lowest point ever recorded in Saint Louis in relation to the population.

A careful analysis of the chart of real estate activity in the March issue of the REAL ESTATE ANALYST, the last few years of which are reproduced above, shows quite clearly that a balancing of the post-war boom by the present depression was inevitable unless all of the precedents of the past were to be reversed. The deeper this depression in real estate activity goes, the shorter its duration will be. We have not yet reached the turning point and no appreciable improvement can be expected in the next few months. The best we can hope for this winter is indications that the tide is turning. Only when these indications become convincing will public confidence return.

THE MONTH'S CHANGES AT A GLANCE

The indicators at the bottom of the page will show at a glance the month's changes in conditions. The position of the arrow head shows the movement during the month - up indicating improvement and down, decline.

A	CTIVI	TY	FORE	CLOS	URES	CONS	TRU	CTION	APA	RT.R	ENT	OTH	HER F	RENT	MA	RRIA	GES
JULY	AUG.	SEPT.	JULY	AUG	SEPT.	JULY	AUG.	SEPT.	JULY	AUG.	SEPT.	JULY	AUG.	SEPT.	JULY	AUG.	SEPT.
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VARIATIONS IN CONSTRUCTION COST OF A FOUR FAMILY FLAT

In the September issue of the REAL ESTATE ANALYST, the construction cost in Saint Louis of a six-room brick residence was studied by years from 1913 to the present. The cost was expressed in total dollars and also in cents per cubic foot and in dollars and cents per square foot of ground area. (See pages 68 - 69.)

In this issue the cost of the typical speculative four-family flat, pictured on the opposite page, is studied in detail from 1907 to the present. This particular building was selected as it was probably duplicated with very slight variations in greater number than any other general type. We have found that almost every speculative builder still has a set of plans in his file for some variation of this building.

The general specifications for this double flat are given below: CUBAGE - 51,272 cubic feet without front or rear porches - 1768 square feet of ground area; FOUNDATION - rubble stone; WALLS - 13" variegated matt brick backed with 5 x 8 x 12 tile; FIRE WALLS - salmon brick; STONE TRIM - average grade cut stone base, sills and trim; ROOF - Spanish tile mansard with tar and gravel back roof; SHEET METAL WORK and FLASHING - 26 gauge sheet metal; SASH - wood; DOORS - exterior, 1-3/4" firinterior, 1-3/8" pine; INTERIOR TRIM - yellow pine, ivory enamel; PLASTER - 3 coats on wood lath; FLOORS - in basement, cement - bath, ceramic tile - kitchen, maple - others, oak; INTERIOR WALLS - plastered and papered; PLUMBING FIXTURES - 60" open front recess tubs - bracket lavatories - toilets, average grade - 42" sinks, average quality; ELECTRIC FIXTURES - average; HEATING PLANTS - 4 good grade warm air furnaces; WATER HEATERS - 4 average gas, copper coil; PORCHES - front, brick - rear, wooden screened; WALKS - cement; SODDING - entire yard; NO GARAGES.

There were several problems which immediately presented themselves in this study.

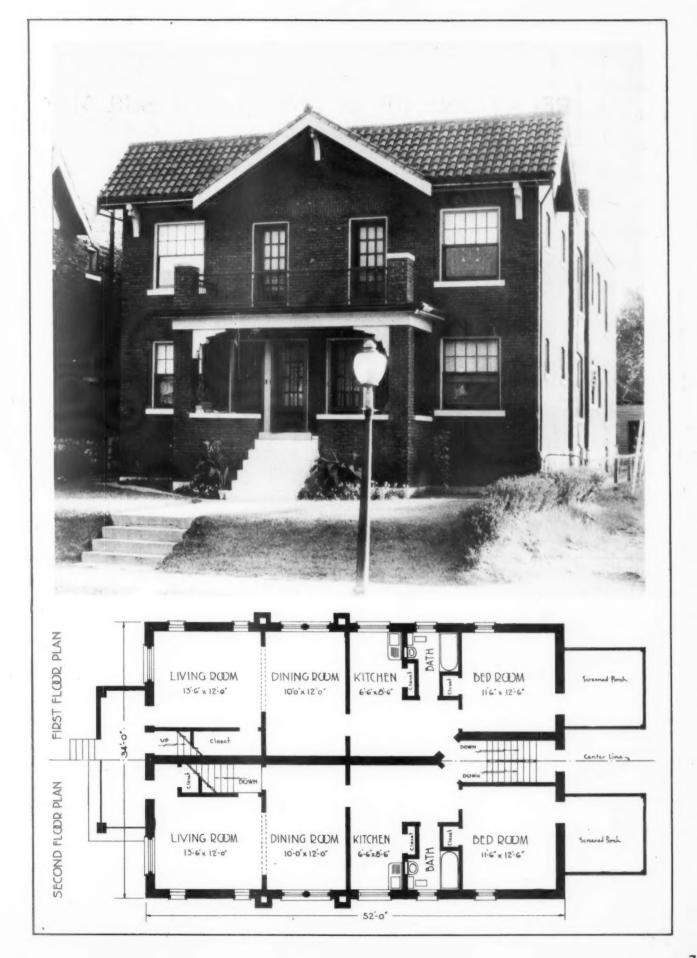
I. During the speculative period, this building was generally built in quantities which slightly reduced the cost per building. It was decided, however, to compare costs for the entire period on the basis of the construction of a single building, feeling that any saving due to multiple construction would be more apt to increase the profit to the builder than to reduce the selling price materially.

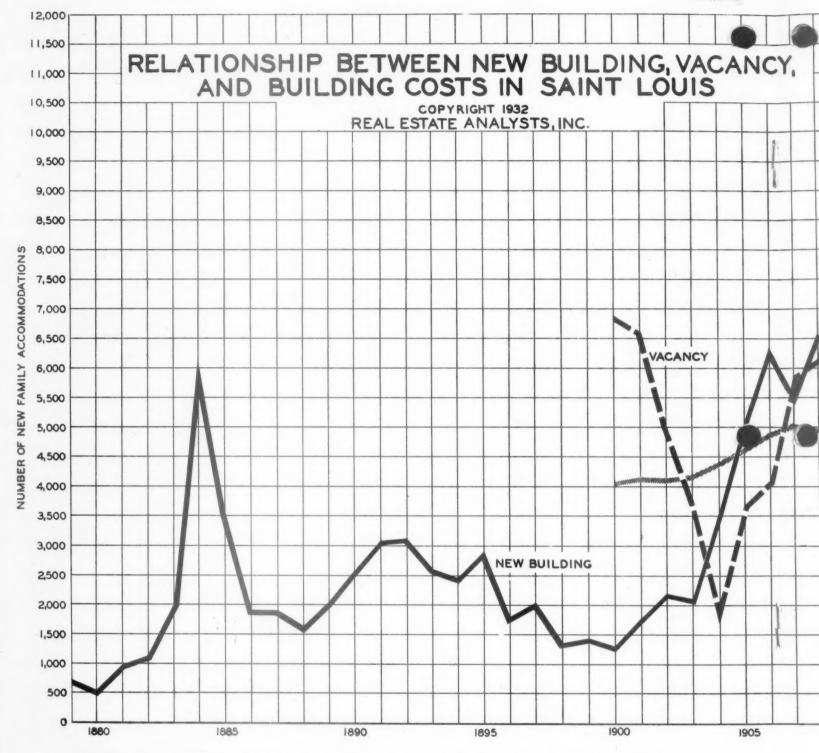
II. During the period from 1907 to the present, the specifications were changed several times due to changes in materials available and differences in building practice. During the past year, conduit and BX replaced the knob and tube wiring formerly allowed. The kitchen drain boards in 1907 were wooden, the toilets had high wooden tanks, the bathtubs were on legs, the bath floors were not tile, and the other floors were not hardwood. In 1907, the front of the building only was built of stock brick, the balance being common. The backing then was of salmon, later giving way to dobies, then to 5 x 8 x 12 tile. All of these changes have had their effect on prices, both of material and labor.

III. As most of the buildings of this type were built "open shop" it was felt that labor costs should be computed on what was actually paid rather than on some "scale" which, in periods of depression at least, has only a theoretical importance. Union scale on this building has only declined 4.6% since 1925 but the labor cost of building it non-union with skilled men has declined 41% since that time. Using non-union labor rates complicated the problem tremendously as the "scale" is a matter of record, while non-union rates are not. Tradesmen, contractors and labor agents were consulted in an effort to ascertain divergence from "scale wages" at different periods. The rates used for each year, we believe, come very close to those actually paid. Consideration was also given to the variation in efficiency of labor at different times. During the height of the boom efficiency per man decreased considerably.

IV. The amount of profit which was actually made on buildings of this type has varied greatly. Item 14 on page 78 shows the amount of profit which has been used in arriving at our cost. Undoubtedly many builders made more than this at times. The figures we have used represent our opinion of the average.

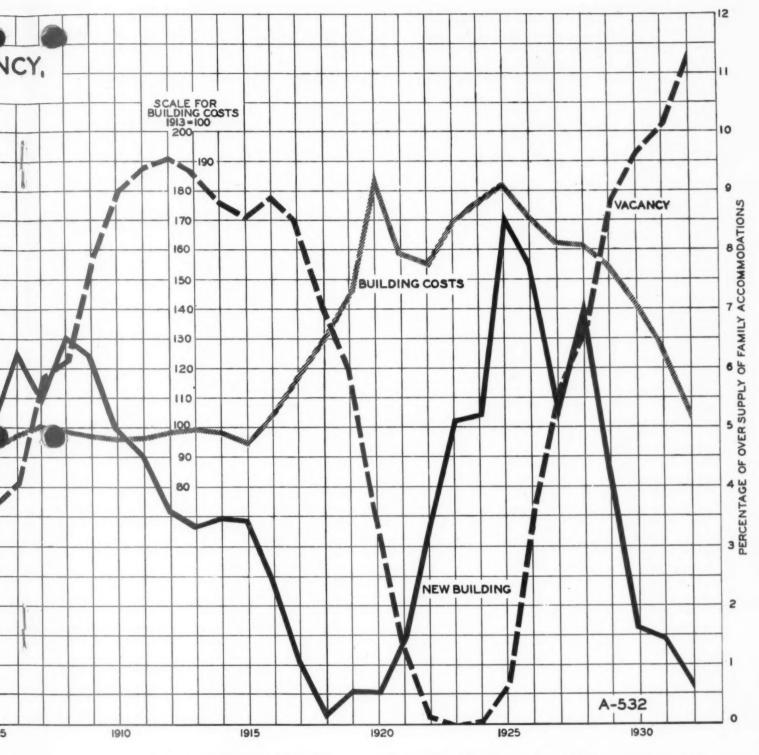
 $\underline{\underline{V}}$. The figures shown on the table on page 78 and the chart on page 79 do not include the cost of the lot nor the sale commission on that part of the sale represented by the value of the lot. To find the total selling price of the building and lot, add $5\frac{1}{4}\%$ to the price of the lot and add the total to the building cost figure given on page 78. There has undoubtedly been a variation over this period in the price for which a desirable lot could be bought.





THE chart above shows why new residential building in Saint Louis stopped and why it is impossible to stimulate it at the present time. The solid black line read on the scale to the left, shows the number of new family accommodations built each year since 1879. The long dash line read on the scale to the right, shows the percentage of over supply or, in other words, the vacancy each year since 1900. The shaded line read on the center scale, shows the fluctuation in the cost of building in Saint Louis since 1900.

It will immediately be noticed that the building booms which started in 1903 and in 1921 started because the number of families in Saint Louis was fast catching up with the number of dwelling units as shown by the rapid decrease in vacancy (the dash line on the chart). This rapid absorption in both



periods was one or the causes of rapid rent increases (see chart, page 24, May issue) which made the ownership of real estate profitable. In 1904 there had been no great disturbance of construction costs, so as soon as a reasonable demand increased rentals and values, building started up. This was not true in the recent boom. Because construction costs had gone up tremendously, the demand had to increase to a point where rentals more than doubled over a fairly stable prewar level before speculative building could be done with profit. The volume of building, therefore, dropped much lower before the last boom than it did before the 1904 boom. The great increase in marriages during the early part of the last boom increased the number of homes so rapidly that even after new building did start, it was four or five years until the construction of new quarters caught up and passed the demand.

By 1925 the shortage of houses had disappeared but new building continued at a high rate and an over supply of family accommodations started accumulating. As this over supply became larger and larger, competition for tenants caused a drop in rentals and lower returns caused a drop in values. By 1928, the percentage of over supply of living quarters had reached six and a half percent and rentals were no longer high enough to pay a return on the cost of a new building. Accordingly building dropped very rapidly but not rapidly enough to prevent the surplus from becoming still larger. At the present time, this surplus is larger than it has ever been before and is still increasing in spite of the almost complete cessation of building activity. The increase today is due almost entirely to the reduction in population due to the depression.

It is quite apparent on the chart that new building in Saint Louis has stopped because we have built more family accommodations than we have families. To stimulate building at the present time would merely aggravate the situation and increase the surplus, already far too large. From past experience, as shown on the chart, it appears that new building will not start in any volume until the demand for homes absorbs a large part of the over supply. In 1903, when vacancy went below four percent, building started a rapid rise. Again in 1920 building showed no activity at all until the vacancy had fallen below four percent. Even tho the absorption of vacancy is as rapid as it was after 1916, it will still take a number of years before vacancies can be reduced to less than four percent which, in the past, has seemed to be the signal for the revival of construction. This reduction in vacancies, which will make new building possible, will come about in the following ways:

I. Through the natural increase in the city's population.

II. Through a return to the city of many industrial workers who have been forced to go to rural communities by the depression.

<u>III</u>. By an "unscrambling" of "doubled-up" families as soon as business conditions improve to the point where many dependent families again become self supporting units with sufficient income to afford a separate establishment.

IV. By a rapid increase in marriages as soon as economic conditions make marriage possible for a portion of the sixteen or more thousand Saint Louis couples who have deferred marriage because of the depression

 $\underline{\underline{V}}$. By the demolition of buildings by fires, tornadoes, street widening, governmental improvement and such change of use necessitating demolition of dwellings.

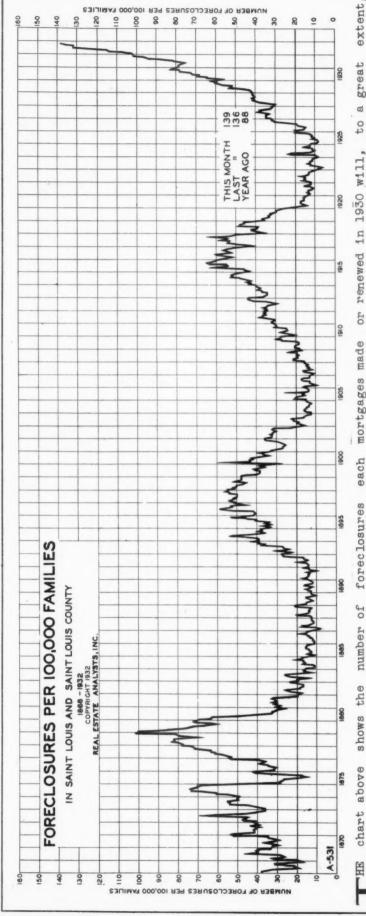
 $\underline{\text{VI}}$. By a change from residential use in a building to commercial or industrial.

VII. By the passing of a dwelling from the competitive market because of total obsolescence or depreciation of the building itself or its neighborhood.

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extent, However, the panic psychology was on by foreclosed then. While we expect foreclosures to remain high during 1933 be considerable relief from to a great 1930 and many of these mortgages were reduced or or renewed in 1930 will, we believe that there will be cons distressing levels of the present. come due next year. mortgages made each any other the drastic liquidation taking place in real estate. In the great depression after the Civil War, foreclosures reached 101 per month for each 100,000 families. In the big depression in the nineties they reached 60. During each This chart shows more strikingly than

County for

Saint Louis

Louis and

100,000 families.

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month

clothes, wages and houses, loans which were safe in 1928 are or renewed in 1929. The greater part of the drop in prices has come since that time with the most of it since 1930. The unsafe today. be renewed.

the World War, they reached 65. At the present time they have reached 139 per month for each 100,000 families.

kerage of real estate. Most of the foreclosures today are on loans made Due to the change in values of all things, shoes, Many of these came due last year and could not

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FAMILY FLAT

in the table is numbered and a brief descriptions included in each is given in the paral.

Each paragraph is numbered to correspond umn it describes.

OVERHEAD

Cost of all city permits, city inspections and utility connection costs.

Cost of financing, interest during construction, insurance and sales commission on the building

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TOTAL OVERHEAD COST.

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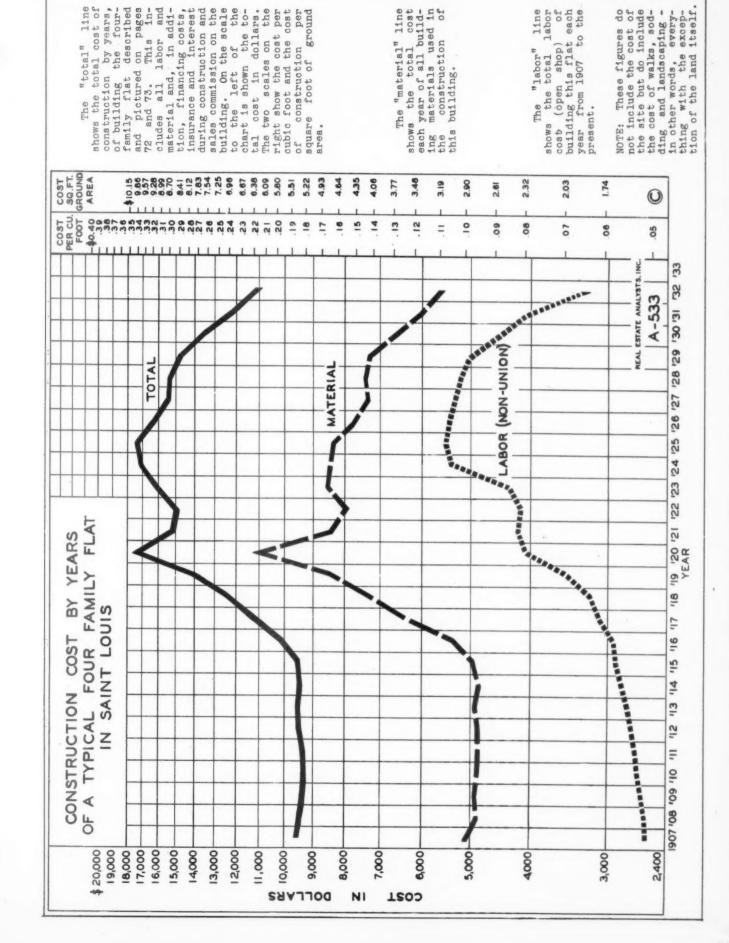
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6. Cost of setting all stone, lay- ing brick and pouring concrete. 7. Cost of labor on lathing and	plastering. Cost of carpentry, roofing,	flooring, painting and builder's general supervision.	Gost of installing plumbing material and fixtures, wiring, heat-	ing plant and sheet metal work. Cost of excavation, grading and	TOTAL LABOR COST.
. 6.	. 0		6	10.	11.
Cost of face brick, salmon brick, backing tile, flue lining and building stone.					

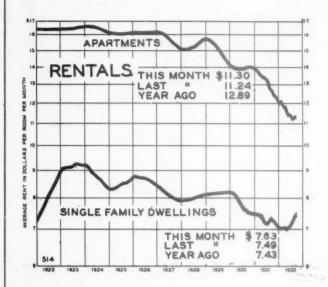
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CONSTRUCTION	5	\$2050	2147	2375	2614	2860	2889	3140	3463	3192	3127	2760	2538	2475	1960	1900	1830	1715	1635	1735	1740	1735	1635	1635	1735	1835	
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	7		322	383	490	560	809	613	698	698	585	585	570	534	520	492	474	469	469	469	468	468	468	467	467	466	
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	4	\$1379	1480	1637	1723	1890	1899	1972	2025	2079	2055	1774	2028	2596	1909	1900	1817	1457	1201	1161	1089	1102	1090	1136	1113	1127	
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5. TOTAL	YEAR	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	



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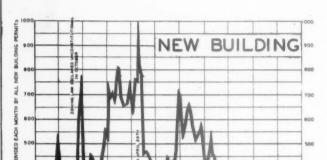
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THE consistent increase in the average advertised rental of single family dwellings during the past four months, as shown on the lower line on the chart to the left, is undoubtedly due to the fact that during the depression, the cheaper vacancies have been absorbed to a larger extent than the more expensive ones, leaving a larger percentage of the vacancies in the higher rental group. Until the depression mitigates, low rent properties will have less difficulty in holding tenants than high rent properties.

The slight upward turn in the apartment line may be due to the same



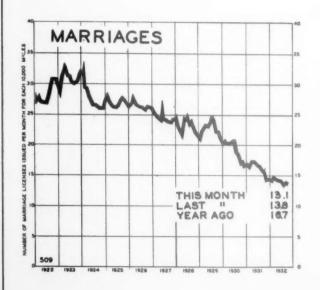
THIS MONTH

YEAR AGO

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135

HERE was little change during the month in the general building situation, nor was any expected. New building in any quantity is still some time in the future. For a detailed explanation of the present situation and a forecast for the near future, see pages 74, 75 and 76 of this issue of the Real Estate Analyst.



URING September, new marriages declined to an all-time low record, 54.7% below normal. Marriages dissolved during the month by death or divorce exceeded new marriages by 156. During the past three months, this figure has accumulated to 560.